WHAT IS CLAIMED IS

A fiber-optic laser pumped by linearly a optical wave, comprising а birefringent polarized optical fiber possessing a photo-recorded Bragg grating wherein the optic of its ends, possessing very high birefringence of over 10-4 shows two orthogonal modes of polarization, and wherein the show sufficient are // made to so as differences between the two resonance peaks of the Bragg wavelengths corresponding to the two modes of polarization.

A fiber-optic laser according to claim 1, wherein the mean Bragg wavelengths of the two gratings are offset so that only the Bragg wavelengths corresponding to one and the same mode of polarization are put into a state of coincidence for the two gratings.

A fiber-optic laser according to claim 1, comprising a device for the rotation of polarization by $\Pi/2$ enabling the polarizations to be made to rotate by $\Pi/2$.

wherein the two gratings are made so that the resonance of a first polarization in a first grating R1 is made to coincide with the resonance of a second polarization perpendicular to the first polarization in the second grating R2.

foregoing claims, wherein the two gratings show different coefficients of reflectivity for two orthogonal modes of polarization.

wherein the coefficients of reflectivity for a first mode of polarization are the maximum in both gratings

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and wherein they are the minimum for the second mode of polarization orthogonal to the first mode.

7. A fiber-optic laser according to claim 1, wherein the fiber is a fiber with a dissymmetrical structure and/or a fiber withstanding asymmetrical stresses.

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